

MATH 125 Section 013 - Fall 2023
Quantitative Reasoning

Class: TR 9:30 – 10:45 AM, RB 447

Instructor: Colton Gearhart (colton.gearhart@bsu.edu; You can expect a response to emails within 24 - 48 hours)

Office Hours: TR 12:00 – 1:00 PM or by appointment, Office RB 411; **Please make appointment for office hours**

Text and Materials: Our text is *Viewing Life Mathematically: A Pathway to Quantitative Literacy*, 1st ed, Denley, Hall, 2020. We will cover chapters 7, 8, and 9. A good scientific calculator is required. ***The TI-30XS MultiView is recommended.*** Cell phones and other personal devices may not be used during class. Students will regularly need to bring laptops.

Course Description & Rationale: MATH 125 satisfies the university core curriculum requirement for mathematics. This course covers aspects of personal finance, probability, and statistics. We will use a variety of fundamental mathematical skills to analyze situations not typically covered in a traditional sequence of mathematics courses. We will develop problem-solving skills enabling students to be capable and productive leaders and citizens.

Course Objectives & Learning Outcomes: Students are expected to master the manipulation of mathematical symbols and gain a new perspective on mathematical thinking, with the hope that they will recognize situations where these skills may be applied. These tools are used to provide a new way of looking at today's world at a collegiate level. Among other things, students will learn the following:

- How to extract useful mathematical information from data presented in numerical or graphical form.
- How to present data in graphs and tables to communicate information, both by hand and using technology.
- How to use technology to gain knowledge and solve real-world problems.
- How to interpret and draw conclusions from data, both for a single variable and for two variables.
- How to communicate effectively in writing, using proper English and correct mathematical terminology, in the context of finances and statistics.

Class Structure: Class time will be primarily devoted to group work and guided problem solving. Complete academic integrity is expected. Consistent and punctual attendance is essential and expected. Students should notify the instructor once they anticipate being absent for any reason (e.g., funeral) or as soon as possible after the absence begins (e.g., unexpected injury or illness). Documentation may be requested. More detail on BSU Attendance Policies can be found [here](#).

Hawkes Homework and Canvas Quizzes: Most work will be submitted through the online Hawkes system and Canvas; all assignments will be graded. ***Assignments must be submitted by 9:30 AM on the appropriate day.*** Hawks will assess a 25% penalty per “day” that the assignment is submitted late. Quizzes will not be accepted late, but the 2 lowest Canvas quizzes will be dropped.

Attendance and In-Class Assignments: Students are expected to attend all classes. In-class and group assignments cannot be made up. However, the two lowest in-class assignments will be dropped. The Data Analysis project cannot be dropped.

Class Participation: I really want to encourage you to ASK QUESTIONS throughout the lectures, group work and practice! This is part of the learning process and benefits others in the class who may have the same questions.

Exams: There will be 3 exams. The third will be the final exam and will cover Chapter 8, Statistics. The final exam is ***Friday, December 15th from 9:45 – 11:45 AM*** in our classroom. It will follow a similar format to the previous exams. Exams can be made up at the discretion of the instructor and only if the student makes arrangements no later than the day of the exam.

Course Grade: Hawkes Certify homework assignments will contribute 20% of a student's overall grade. Canvas quizzes will account for 10%. In-class assignments, group work, additional assignments, and discussion boards will account for 10%. Each of the 3 exams will contribute 20%. Students earn the grade determined by the following standard 100—90—80—70—60 scale:

Letter Grade	Course Percentage
A	93-100
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79

Letter Grade	Course Percentage
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
F	0-59

The Learning Center: The Learning Center offers free tutoring for many courses. We also provide writing and study skills tutoring. Students can make appointments for virtual (Zoom) or in-person (NQ 350) appointments. Students can begin making appointments on Thursday, August 25, 2022. Tutoring will begin on Monday, August 29, 2022. To make an appointment, visit my.bsu.edu and click on "Navigate" in the Additional Tools section, or just go directly to <https://bsu.navigate.eab.com>. You can also download the Navigate Student app. The Learning Center also has drop-in tutoring (no appointment necessary) for math, chemistry, and physics. [Check our website](#) for more information. Testing accommodations for students with disabilities are available for students who have received the appropriate documentation from Disability Services. Tests may be administered in the Learning Center. For more information about all of our programming, visit bsu.edu/learningcenter or call 765-285-1006. Email us at learncenter@bsu.edu. Follow us on Instagram and Twitter: BallStateLC

Disability Statement: Do not hesitate to contact me with any questions or concerns. If you need course adaptations or accommodations because of a disability, please contact me as soon as possible. Ball State's [Disability Services Office](#) coordinates services for students with disabilities; documentation of a disability needs to be on file in that office before any accommodations can be provided. Disability Services can be contacted at 765-285-5293 or dsd@bsu.edu.

If you are experiencing mental health concerns, telehealth services are available – here is a link to the [Counseling Center website](#).

Diversity Statement: Ball State University aspires to be a university that attracts and retains a diverse faculty, staff, and student body. We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldview represented at Ball State and among those we serve. We promote a culture of respect and civil discourse as expressed in our [Beneficence Pledge](#) and through university resources found [here](#).

Important Links: [Covid-19 Quick Links](#), [Cardinals Care Pledge](#), [Student Academic Ethics Policy](#), [Code of Student Rights and Responsibilities](#)

Important Dates: There is no class on Labor Day, Monday, September 4. Fall Break is October 9-10. Thanksgiving Break is November 22 – 26. The course withdrawal period ends Monday, October 30, 2023 at 5:00pm. Before this date, students can elect to receive a "W" by completing and submitting the proper form. The instructor's permission is not required. For details see <https://www.bsu.edu/about/administrativeoffices/registrar/registration-activities/withdraw-from-classes> as well as Degree Requirements and Time Limits in the current Undergraduate Catalog OR Withdrawal Procedures in the current graduate catalog.